NAVIGATION SYSTEM

Preparation
See page 4 for specific information.
Before Use

Immediate use
See page 4 for specific information.
Getting started
Routing

Advanced use
See page 5 for specific information.
Address Book
Navigation Set Up

If necessary
See page 5 for specific information.
If necessary

Accessories

Please contact an Authorized Mazda Dealer if you are missing the following accessory.

●Map Disc

CAUTION:
THIS PRODUCT IS A CLASS I LASER PRODUCT. HOWEVER THIS PRODUCT USES A VISIBLE/ INVISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THIS PRODUCT CORRECTLY AS INSTRUCTED.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Laser products:
Wave length: 650 nm
Laser power: No hazardous radiation is emitted with safety protection.

MEMO

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Safety Information

■ Read this owner's manual for your Navigation System carefully before using the system.
It contains instructions about how to use the system in a safe and effective manner.
Mazda assumes no responsibility for any problems resulting from failure to observe the instructions given in this manual.

■ This manual uses pictographs to show you how to use the product safely and to alert you to potential dangers resulting from improper connections and operation. The meanings of the pictographs are explained below. It is important that you fully understand the pictographs and explanations in order to use this manual and the system properly.

Warning	**Warning**	The presence of this Warning symbol in the text is intended to alert you to the importance of heeding the operation instructions. Failure to heed the instructions may result in severe injury or death.

Warnings

■ **Do not keep your eyes fixed on the monitor screen or operate the system while driving.**
Do not change the settings and destination locations while driving. Minimize the time spent on viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before operating the system.

■ **Always obey local traffic regulations.**
Your guided route may include roads that are not open to vehicles or are closed due to traffic regulations. Comply with the local traffic regulations and take another route.

■ **Do not use the unit when it is out of order.**
If the unit is out of order (no image, no sound) or in an abnormal state (has foreign matter in it, is exposed to water, is smoking, or smells), then turn it off immediately and consult with an Expert dealer, we recommend an Authorized Mazda Dealer. Using the unit in an out-of-order condition may lead to accidents, fires, or electric shocks.

■ **Use the proper power supply.**
This product is designed for operation with a negative grounded 12 V DC battery system.

■ **Do not disassemble.**
Do not disassemble the product or attempt to repair it yourself. If the product needs to be repaired, take it to an Expert dealer, we recommend an Authorized Mazda Dealer.

Caution	The presence of this Caution symbol in the text is intended to alert you to the importance of heeding the operation instructions. Failure to heed the instructions may result in injury or material damage.

Cautions

- **Do not use the product where it is exposed to water, moisture, or dust.**
  Exposure to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.
- **Keep the voice guidance volume at an appropriate level.**
  Keep the volume level low enough to be aware of road and traffic conditions while driving.
- **Protect the Deck Mechanism.**
  Do not insert any foreign objects into the slot of this unit.
- **This navigation system is designed exclusively for use in automobiles.**
  This navigation system should only be installed in an automobile. Do not install it in a ship, aircraft, or any other vehicles except an automobile. Do not use it detached from the vehicle.
- **Do not insert or allow your hand or fingers to be caught in the unit.**
  To prevent injury, do not get your hand or fingers caught in moving parts or in the disc slot. Especially watch out for infants.

Operation is subject to the following two conditions;
(1) this device may not cause interference, and
(2) this device must accept any interference,
including interference that may cause undesired operation of the device.

Introduction

Use This Product Safety

■ **Extremely low or high temperatures may interfere with normal operation**
The inside of the vehicle can become very hot or cold when it is parked for extended periods in direct sunlight or in cold places with the engine turned off. The navigation system may not operate normally under such circumstances. Turn off the navigation system until the inside of the vehicle has cooled down or warmed up. If the system does not operate thereafter, consult an Authorized Dealer, we recommend an Authorized Mazda Dealer.

Navigation System

This navigation system utilizes GPS* satellite signals, a speed sensor and gyrosensor to track and display your vehicle's current position, and to guide you from your starting point to your destination along a calculated route.

* : GPS (Global Positioning System) is a position detecting system utilizing the signals from GPS satellites deployed by the U.S. Defense Department.

Screens

Screens displayed in this manual may differ from those on the actual display.

MEMO

Names and Functions

Joystick

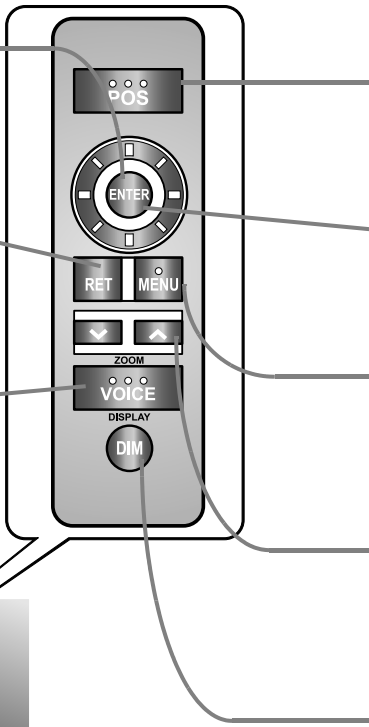
- Selects items by tilting it up, down, right, and left.
- Scrolls map.

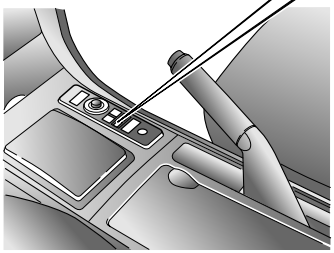
RET key

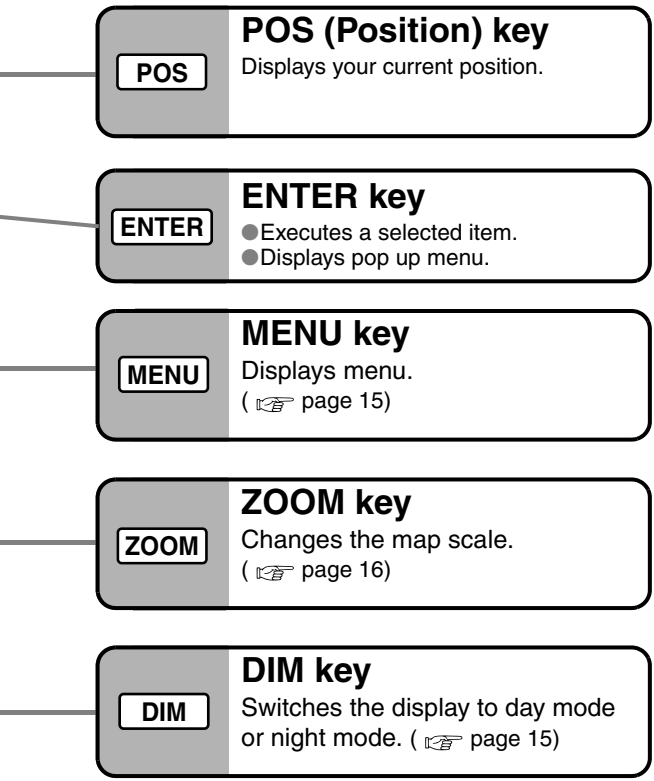
Returns to the previous screen.

VOICE key

- Initiates vocal guidance for route maneuvers.
- Adjusts screen quality. (☞ page 15)







Switching the Display Mode

When the headlight switch is in the ● or ≣D position, the display switches to night mode.
Press the DIM key to switch to day mode.
To return to night mode, press the DIM key again.

Activation

Insert the map disc into the unit to start the Mobile Navigation System.

Cautions

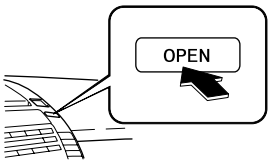
■ **Map Disc**

● Refer to “Handling and Care of Map Discs” to know how to handle a map disc (☞ page 56).

Note

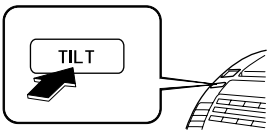
●The map disc cannot be inserted or ejected while the ignition switch is in the OFF position.
●Remember that the battery can run down if the ignition switch is kept in the ON or ACC position for a long time while the engine not running.

1 Turn the ignition switch to the ON position and press OPEN to open the display.



Note

●This display angle can be adjusted by pressing TILT.



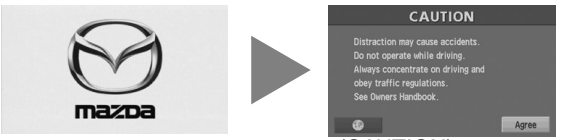
When the TILT is pressed, the display angle changes in stages.

●Press OPEN to close the display.

2 Insert the map disc with the printed side facing up.

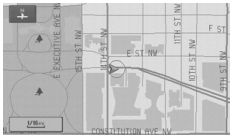
Note

●The main unit is located in the glove box compartment.
●Condensation may form on the optical lens or the map disc inside the unit when the temperature in the vehicle increases in a short time such as when heating the car on a cold day. This condensation may cause malfunctions. If so, unload the map disc and do not operate the unit for approximately 1 hour. Wipe the condensation off the map disc with a soft cloth.
If the unit does not operate correctly after 1 hour, consult an Authorized Mazda Dealer.



(CAUTION) screen

3 Read CAUTION carefully, and select Agree and press ENTER.



> **Caution**
> Most functions are inhibited while the vehicle is in motion.
> Please read the handbook for operation instructions.
> Always obey traffic regulations.

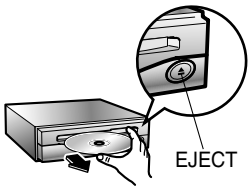
- The Current Position screen appears.

Note

- You can select the language by select and press ENTER. You can also change the selected language using Language Selection. (☞ page 47)
- The CAUTION screen remains on the display unless you select Agree and press ENTER.

Removing the Map Disc

When the ignition switch is in the ACC position and press ▲ (EJECT).



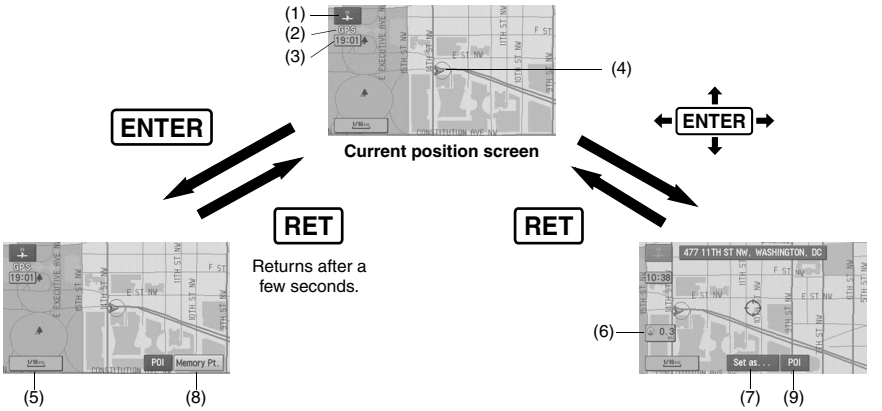
> **Caution**
> Do not get your hand or fingers caught in moving parts or in the disc slot. This can cause injuries. Children are inquisitive, try to install or remove the map disc without infants looking on.

Buttons on the screen

Select the buttons by using Joystick and press ENTER.
Colors for unavailable buttons will be pale.

Screen Names and Functions

Screens Before Setting Route



(1) Map Orientation control
(☞ page 16)

(2) GPS (Global Positioning System) marker
(☞ page 50)

(3) Clock
Clock will be displayed when you set up Clock on Navigation Set Up On.

(4) Vehicle marker
Shows the current position and direction of your vehicle.

(5) Scale display
Displays the scale of the map.

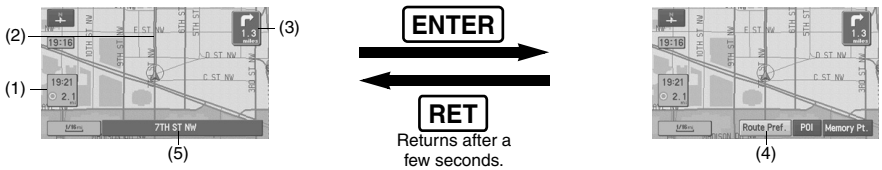
(6) Distance from current position
Displays the distance from the current position to the position pointed by ○.

(7) Set Destination button
The destination, memory point or way point will be set at the position pointed by ○ in the scroll screen.

(8) Store Memory Point button
Stores markers on the map.

(9) POI (Point of Interest) Display button
(☞ page 26)

Screens During Route Guidance



(1) Distance and Time to Destination display
Displays the time* and distance to the destination or way point.
Selecting this will display the next and further information on the way point or time and distance to the destination.
(* Either required time or estimated time arrival)

(2) Route display
Shows the provided route as a thick blue line.

(3) Turn Arrow display
Shows the direction to turn at the next junction and the distance to the junction.

(4) Route Preferences button
(☞ page 30)

(5) Current Road Name
Shows the name of the road you are currently driving on.

Menu

Menu appears when pressing MENU.

Destination Entry and Route Search (☞ page 18)
Address Book (☞ page 34)
Cancel Guidance (☞ page 29)
Route Options (☞ page 30)
Volume (☞ page 38)
Navigation Set Up (☞ page 40)

Screen adjustments and settings

Display Menu screen will be shown when you press VOICE (DISP) and hold.

Note

Display Menu screen will be disappeared when they have been unused during a few seconds.

■ Adjusting the screen quality

- Adjusts the screen brightness
  Select "ADJ", and then "BRIGHT". The screen will brighten when scrolling to the right, or darken when scrolling to the left.
- Adjusts the screen contrast
  Select "ADJ", and then "CONTRAST". The screen will lighten when scrolling to the right, or deepen when scrolling to the left.

Note

- Adjust by scrolling the Joystick to the right and left.
- Restore the adjustment value to the default when selecting “RESET”, press ENTER.

■ Clearing the screen

Select “DISP OFF”, press ENTER and the screen will disappear.
The screen will appear again when pressing any buttons.

■ Daytime screen/Night screen

When the headlights are on, daytime mode can also be selected (if extra screen certain nighttime conditions). This selection can only be done when the headlights are on. Press ENTER to switch between day and night modes.

- The screen can be returned to the daytime screen while the headlights or running lights are on using DIM.

Screen change Changing the Map Orientation/Scale

Warning

■ **Do not keep your eyes fixed on the monitor screen or operate the system while driving**

Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.

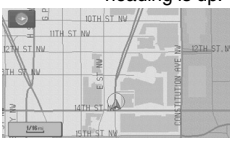
Map orientation

1 Press ENTER

2 Select , and press ENTER

●North Up: Geographic north is up.

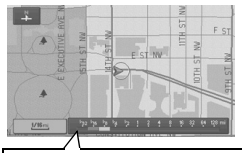
●Head Up: The direction you are heading is up.



Map scale

1 ZOOM

●The map can be displayed in 13 steps with scales from to .



Position before change

<Scale bar>

Imperial display	1/32 mi (mile)	1/4 mi (mile)	2 mi (mile)	16 mi (mile)	128 mi (mile)
Metric display	50 m	500 m	4 km	32 km	256 km

●ZOOM OUT: Enlarges the map.

ZOOM

●ZOOM IN: Reduces the map. (more detail.)

MEMO

Destination Entry and Route Search

●You can set the destination using various methods provided by the system.

Before Steps MENU → ENTER select Destination Entry

Change (Change Search Area)

Open the [DESTINATION ENTRY] Menu

→ **Select** Change

Address

Open the [DESTINATION ENTRY] Menu

Select

Address

When narrowing down to city name

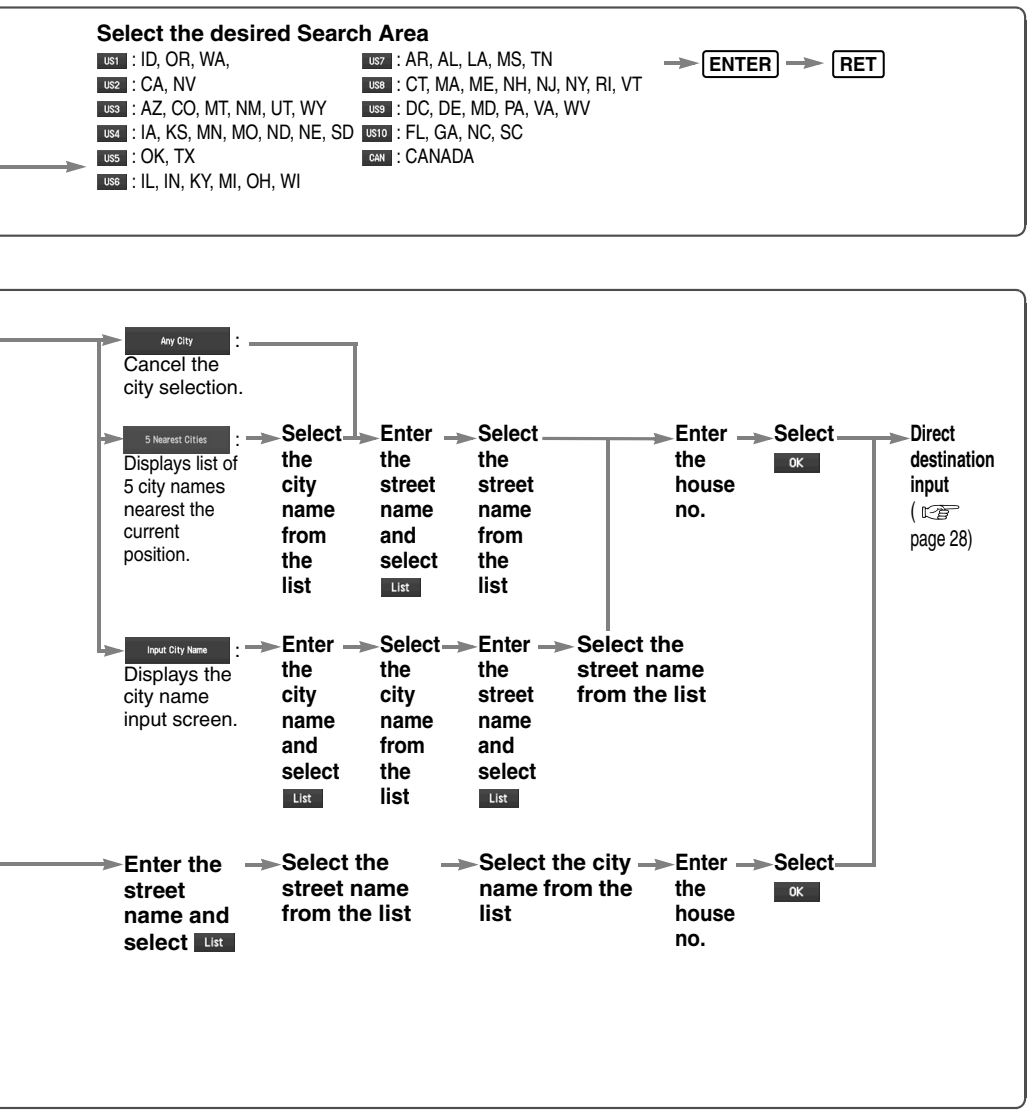
Select City

When narrowing down to street name

Select Street

Warnings

- **Do not keep your eyes fixed on the monitor screen or operate the system while driving.** Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location before operating the system.
- Route searches with the navigation system can include roads that you cannot drive on and roads that you are prohibited from driving on due to traffic regulations. Please comply with the traffic regulations.


Select the desired Search Area
US1 : ID, OR, WA,
US2 : CA, NV
US3 : AZ, CO, MT, NM, UT, WY
US4 : IA, KS, MN, MO, ND, NE, SD
US5 : OK, TX
US6 : IL, IN, KY, MI, OH, WI
US7 : AR, AL, LA, MS, TN
US8 : CT, MA, ME, NH, NJ, NY, RI, VT
US9 : DC, DE, MD, PA, VA, WV
US10 : FL, GA, NC, SC
CAN : CANADA
ENTER
RET
Any City : Cancel the city selection.
5 Nearest Cities : Displays list of 5 city names nearest the current position.
Select the city name from the list
Enter the street name and select List
Select the street name from the list
Enter the house no.
Select OK
Direct destination input (page 28)
Input City Name : Displays the city name input screen.
Enter the city name and select List
Select the city name from the list
Enter the street name and select List
Select the street name from the list
Enter the street name and select List
Select the street name from the list
Select the city name from the list
Enter the house no.
Select OK

- For Character Entry, please refer to page 27.

Destination Entry and Route Search

Point of interest

Open the [DESTINATION ENTRY] Menu

Select

Point of Interest

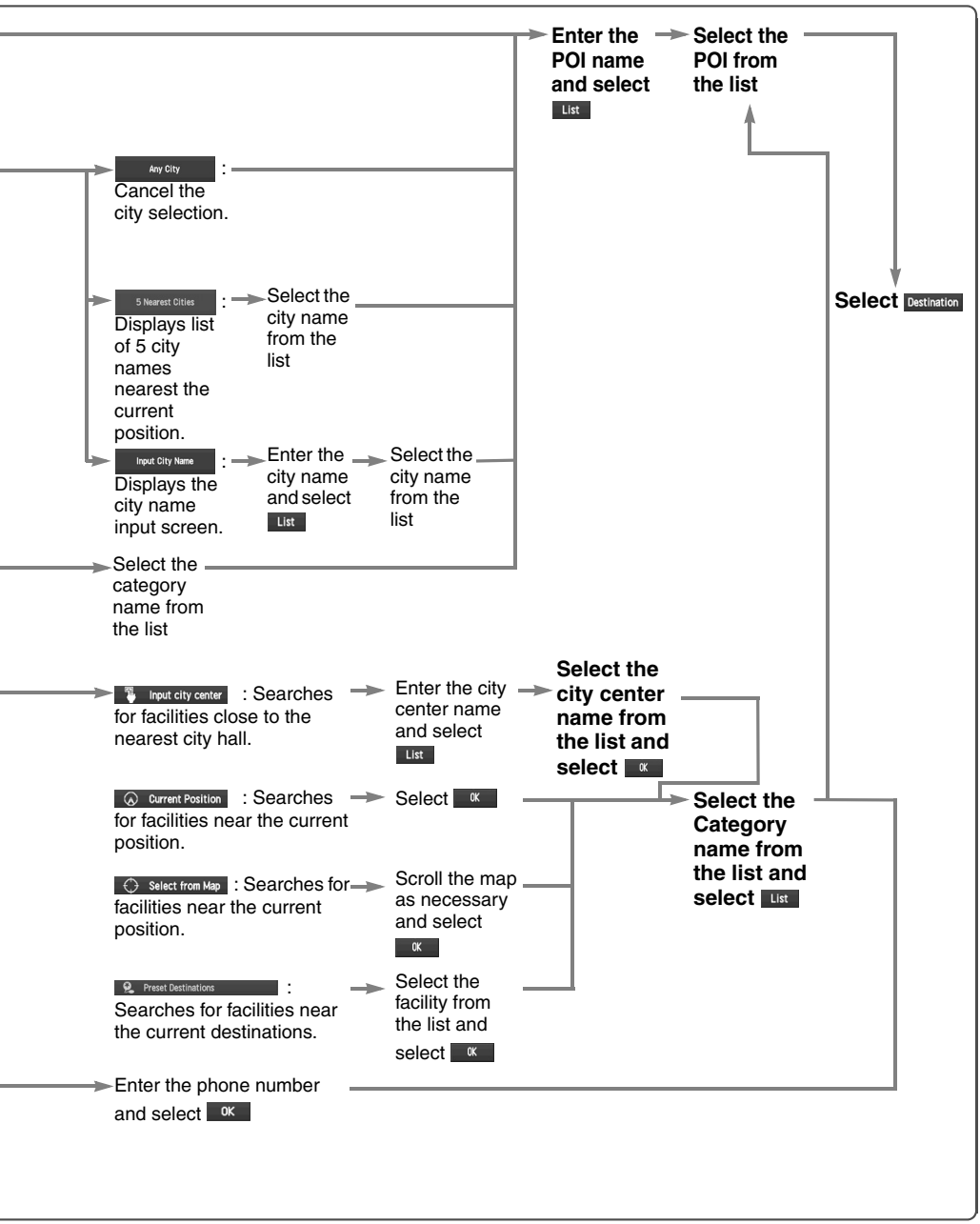
When entering the destination point directly
Select
Name

When narrowing down to city name
Select
City

When narrowing down to category name
Select
Category

When narrowing down to the nearest facility
Select
Nearest

When narrowing down to a phone number
Select
Phone Number


Enter the POI name and select List
Select the POI from the list
Any City :
Cancel the city selection.
5 Nearest Cities :
Displays list of 5 city names nearest the current position.
Select the city name from the list
Input City Name :
Displays the city name input screen.
Enter the city name and select List
Select the city name from the list
Select Destination
Select the category name from the list
Input city center : Searches for facilities close to the nearest city hall.
Enter the city center name and select List
Select the city center name from the list and select OK
Current Position : Searches for facilities near the current position.
Select OK
Select the Category name from the list and select List
Select from Map : Searches for facilities near the current position.
Scroll the map as necessary and select OK
Preset Destinations :
Searches for facilities near the current destinations.
Select the facility from the list and select OK
Enter the phone number and select OK

● For Character Entry, please refer to page 27.

Destination Entry and Route Search

Emergency

Select

When stopped

Police Station

Displays the police station select screen.

Hospital

Displays the hospital select screen.

When driving

Nearby Police Station

Sets the destination to the nearest police station automatically.

Nearby Hospital

Sets the destination to the nearest hospital automatically.

Select the sort methods

Dist. : Sorts the police station or the hospital by Distance.

Name : Sorts the police station or the hospital by name.

→ **Select the name from the list** → **Select** Destination

Destination Entry and Route Search

Before Steps MENU → ENTER select Destination Entry

- Memory Point
- Home
- Preset Destination
- Previous Destination
- Intersection
- Freeway On/ Off Ramp
- Coordinates
- Select from map

Open the [DESTINATION ENTRY] Menu

→ **Select** Memory Point

→ **Select** Home

→ **Select** Preset Destinations

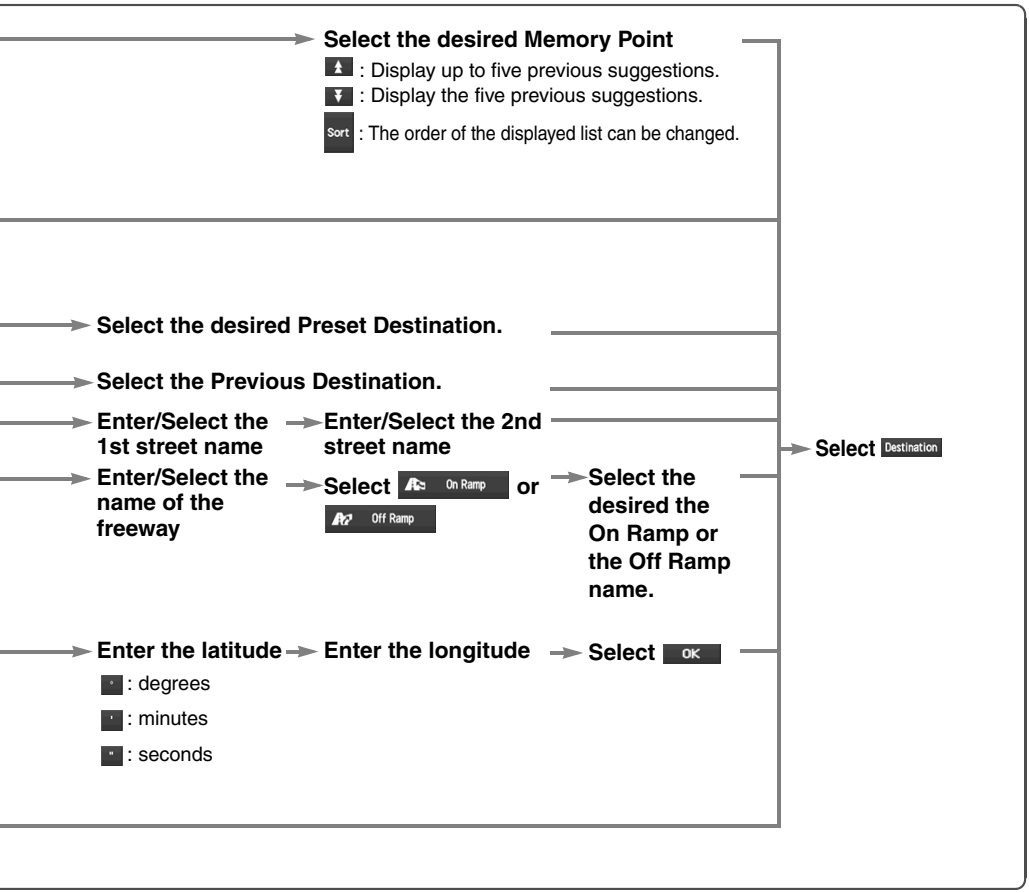
→ **Select** Previous Destinations

→ **Select** Intersection

→ **Select** Freeway On Ramp / Off Ramp

→ **Select** Coordinates

→ **Select** Select from Map


Select the desired Memory Point
: Display up to five previous suggestions.
: Display the five previous suggestions.
Sort : The order of the displayed list can be changed.
Select the desired Preset Destination.
Select the Previous Destination.
Enter/Select the 1st street name
Enter/Select the 2nd street name
Enter/Select the name of the freeway
Select On Ramp or Off Ramp
Select the desired the On Ramp or the Off Ramp name.
Select Destination
Enter the latitude
Enter the longitude
Select OK
° : degrees
' : minutes
" : seconds

● For Character Entry, please refer to page 27.

Quick POI

●You can select one of the Six Categories on the menu or List Categories and then select the POI(s) to be displayed on the map.

Before Steps ENTER → ← ENTER → → Select POI

Displaying POI(s) on a Map

Open the [QUICK POI]

Select the categories to be displayed up to a maximum of five. → Show

●POI icon chart (☞ page 29)

For categories other than the six displayed, select List Categories and select them from the list shown.

Local Search

Search Selected POI → **Select the POI you want to find from the listed categories.**

After you make a selection, the point of interest you selected appears on the map.

Route: Search POI along the route during the guidance and show the list.

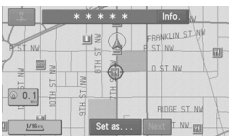
Deleting POI Markers

POI Off

Before Steps Displaying POI(s) on a Map (☞ above)

Showing POI Data

Display the POI.



Select the desired POI by moving ○ on top of the POI icon.

The name of the selected POI appears.

If no data is stored for the selected POI, the POI name is not displayed.

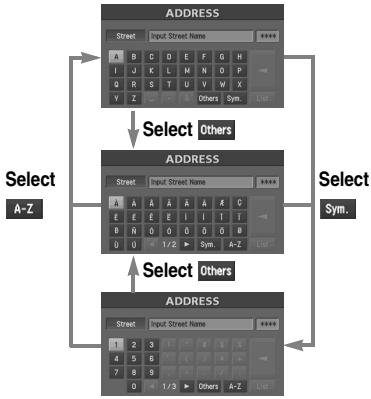
Select Info. (Information)

The POI(s) data is displayed.

Character Entry

To enter the street name, city name, and other.

Select the first several characters on the screen. (Step 1)



: Move the cursor to the previous position and delete a character.

List : The list appears.

Select your target in the list.

Names of which spelling starts with the entered character appear.

- If a desired name is not in the list, go back to Step 1, and try fewer characters.

: Display up to five previous suggestions.

: Display the previous suggestions.

: Text flow (Right)

: Text flow (Left)

Sort : The order of the displayed list can be changed. (Displayed list varies or Sort may not be displayed depending on what was input.)

Input Name : Additional text can be input. (Use when inputting additional characters after the list is displayed.)

- Examples

Street: CANAL
Enter by selecting characters:

C A

Street: 52nd Ave.
Enter by selecting characters:

5 2 n d A

Street: MAIN STREET
Enter by selecting characters:

M A I N S

To enter the house phone number, and other.

Select the characters on the screen. → Select OK

: Move the cursor to the previous position and delete a character.

Direct Destination Input

Direct Destination Input

1 Position the cursor on your destination on the map

ENTER

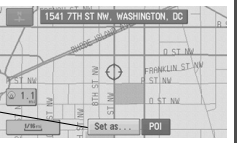
Scroll the map and change the map scale if necessary.

2 Select

ENTER

ENTER

Select Set as...



3 Select Destination.

Route calculation will be carried out and the entire route will be displayed on the map.

Select Way Point (Way point) to set the address as a way point on your route (☞ page 34). You can set up to 5 way-points per trip.

4 Select Guide.

Route guidance begins using displayed route.

Note

- If your desired route cannot be found, Route Opt. (Route Options) allows the route option settings to be changed. (☞ page 30)
- Selecting Guide for five seconds or more will launch the Demo mode.

Selecting Route

Operate after Step 3 of [Direct Destination Input]

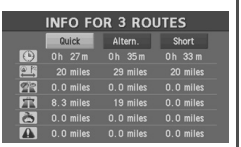
4

The calculation route can be selected from one of three types namely, Quick (the fastest route), Altern. (the standard route), or Short (the shortest route).

5 Select Info. (Information).

Details regarding the individual routes (i.e., required time total distance, roads used, etc.)

Select either Quick, Altern., or Short, and then select Guide when you have decided on the route to be used.



POI Icons on Maps / Delete Destination

■ POI (Point of Interest) Icons

The following are POI icons shown on maps.

Restaurant
- All restaurants
- American
- Chinese
- Continental
- Fast Food
- French
- Italian
- Japanese
- Mexican
- Seafood
- Thai
- Other Restaurants

Shopping
- Grocery Store
- Shopping Mall

Automotive
- Automobile Club
- Gas Station
- Parking
- Auto Service & Maintenance

Travel
- Bus Station
- Ferry Terminal
- Hotel
- Rental Car Agency
- Rest Area
- Train Station
- Airport (All Search Areas)

Recreation
- Casino
- Golf Course
- Historical Monument
- Marina
- Museum
- Ski Resort
- Sports Complex
- Performing Arts
- Tourist Attraction (All Search Areas)
- Tourist Information
- Winery
- Amusement Park (All Search Areas)

Community
- Convention Center
- Court House
- Government Offices
- Higher Education
- Hospital
- Library
- Park & Recreation (All Search Areas)
- Police Station
- School
- City Center

Banking
- Bank
- ATM

Other
- Business Facility

Delete destination

MENU → ENTER ↕ Select [Cancel Guidance] →
ENTER Select [Yes] → ENTER

Route Options

●During route guidance you can change the route options, stop or check the route.

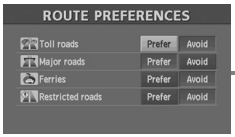
Before Steps MENU → ENTER select Route Options

Route Preferences

Open the [ROUTE OPTIONS] Menu

Select

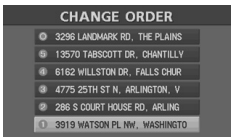
Route Preferences



Modification of Destination or Way Point Positions

Select

Destination & Way Points


CHANGE ORDER
3296 LANDMARK RD, THE PLAINS
13570 TABSCOTT DR, CHANTILLY
6162 WILLSTON DR, FALLS CHUR
4775 25TH ST N, ARLINGTON, V
286 S COURT HOUSE RD, ARLING
3919 WATSON PL NW, WASHINGTO

Select the button for the location to be modified.

Select the way points to change the order.
Change the destination and the passing order of the destination and way points.

Deletion of Destination or Way Points

Select the button corresponding to the destination or way point to be deleted.

Detour

Select

Detour

Turn List

Select

Turn List

The Enter Route screen appears.

Warning

■ **Do not keep your eyes fixed on the monitor screen or operate the system while driving**
Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.

Select Prefer or Avoid for toll roads, major roads, and ferry and restricted roads. → **ENTER** → **POS** → Guide
The route will not necessarily follow the specified conditions.

Select Chg. Loc. (Change Location). → **Move ○ to location and then press ENTER.**
Shows the map for the destination/way points.

Press ▲ ▼ to change the order. → **POS** → Guide

Select Delete → Yes : → **POS**
No :Cancel the deletion

1miles 3miles 5miles : → Guide
Whole Route
Searches the detour routes at one, three, and five miles from the present position to the selected routes. (Display range varies according to the set distance of the selected route.) Whole Route searches the route that detours from the present position for all routes.

Select Avoid from the roads to be avoided. → Yes : → **POS** → Guide
No :Cancel the setting

Route Options

Before Steps MENU → ENTER select Route Options

Display Preview

Open the [ROUTE OPTIONS] Menu

Select Display Route

ENTER

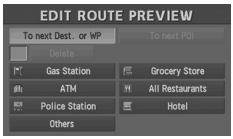
Select Route Preview

Route Preview

Use the buttons displayed on-screen to carry out a simulation run.

- : Move the start point.
- : Carry out a simulation run in the direction of the start point. When the Simulation starts the button will be displayed as , and when selected, it will cause the Simulation to advance quickly.
- : Stop the simulation run.
- : Carry out a simulation run in the direction of the destination. When the Simulation starts the button will be displayed as , and when selected, it will cause the Simulation to advance quickly.
- : Move to the destination.

Edit : Displays the [EDIT ROUTE PREVIEW] screen.



To next Dest. or WP : Stops at the destination or the next way-point.
To next POI : Stops at a point of interest which has been setup on the route.
Delete : Delete the POI which has been selected.

POIs: Display the six POIs from Quick-POI storage. When one of these is selected, it will be displayed on the map; furthermore, Others can be selected to display items other than shown here. For more details, refer to page 43.

RET

Address Book

● You can, edit, or delete any marked point.

Before Steps MENU → ENTER select Address Book

Memory Point Storage

Memory Point Confirmation and Modification

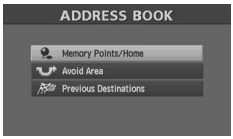
Preset Destinations or Home storage

Memory Point Deletion

All Memory Point Deletion

Displays Icons at Memory Points

Open the [ADDRESS BOOK]



→ **Select** Memory Points/Home →

- Add
- List
- Delete
- Delete All
- **Show all icon** On **or** Off

Set a memory point using your preferred method.

Select a memory point to be modified

- Icon : Allows the display icon to be selected. Page 1 and 2 contain standard icons, whereas the With Sound page contains icons which also playback sounds. (With direction icon function) The beep alert only activates when the vehicle approaches to within about 500m of the memory point from the set direction.
- Name : Allows the name to be changed. When editing has been completed, select OK. Furthermore, select On to display names on the map, or Off if these names are not to be displayed.
- Position : Allows memory points to be checked and modified on the map screen. After checking. → ENTER
- Tel. : Allows the telephone number to be modified. When editing has been completed, select OK.

Select a memory point to be stored in Preset Destinations or Home.

Category : Allows the storage category to be changed. Select the button corresponding to the new category.

- Preset Destinations : Changes the category to Preset Destinations
- Home : Changes the category to Home

Select a memory point to be deleted.

- Yes
- No : Cancel the deletion.

Yes

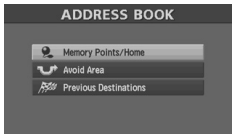
No : Cancel the deletion.

Address Book

Before Steps MENU → ENTER select Address Book

- Avoid Area Storage
- Avoid Area Confirmation and Modification
- Avoid Area Deletion
- All Avoid Area Deletion
- Category Name Modification
- Previous Destination Deletion
- All Preset Destination Deletion

Open the [ADDRESS BOOK]

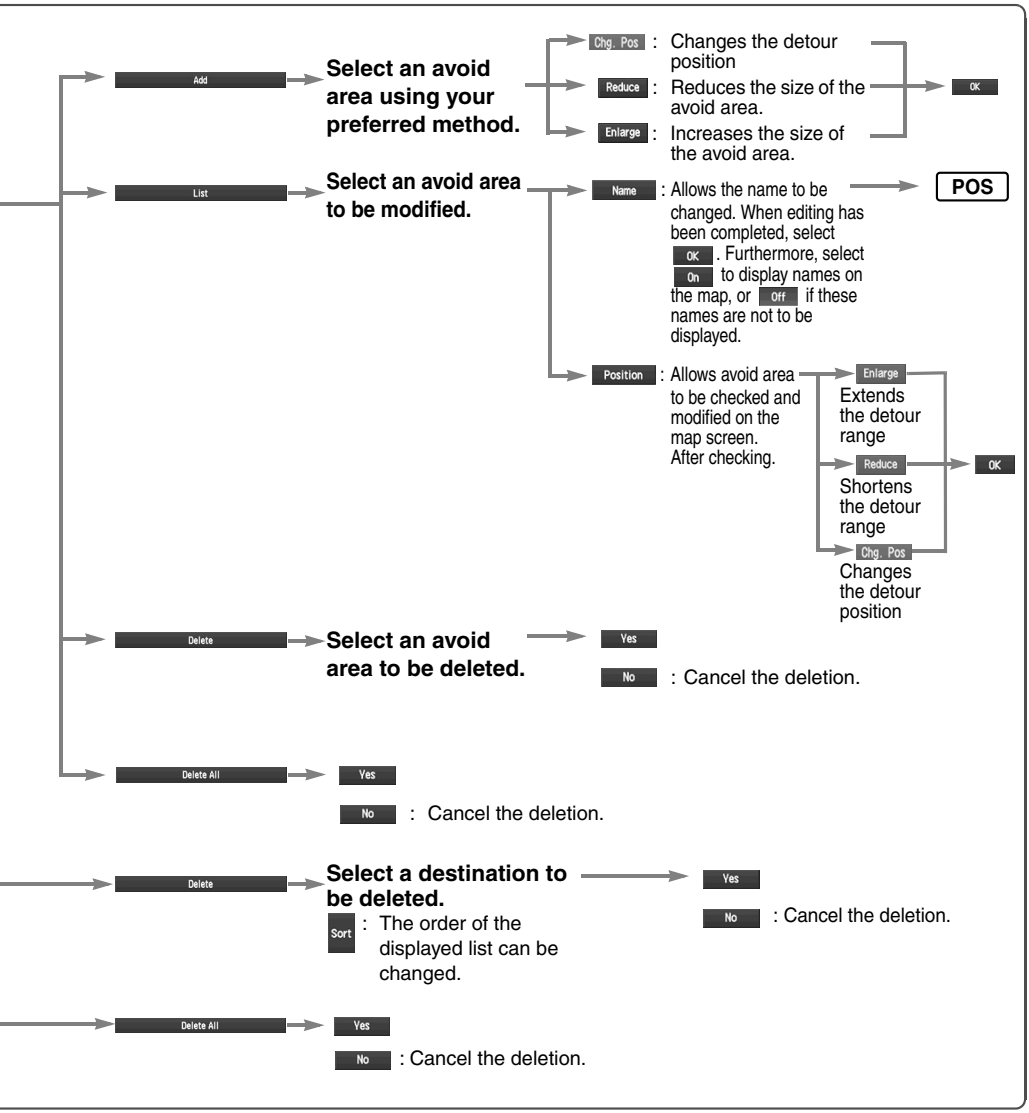


Select

Avoid Area

Select

Previous Destinations


Add
Select an avoid area using your preferred method.
Chg. Pos : Changes the detour position
Reduce : Reduces the size of the avoid area.
Enlarge : Increases the size of the avoid area.
OK
List
Select an avoid area to be modified.
Name : Allows the name to be changed. When editing has been completed, select OK. Furthermore, select On to display names on the map, or Off if these names are not to be displayed.
POS
Position : Allows avoid area to be checked and modified on the map screen. After checking.
Enlarge
Extends the detour range
Reduce
Shortens the detour range
Chg. Pos
Changes the detour position
OK
Delete
Select an avoid area to be deleted.
Yes
No : Cancel the deletion.
Delete All
Yes
No : Cancel the deletion.
Delete
Select a destination to be deleted.
Sort : The order of the displayed list can be changed.
Yes
No : Cancel the deletion.
Delete All
Yes
No : Cancel the deletion.

Volume Adjustment

You can adjust the volume control for the voice guidance.

Before Steps MENU → ENTER select Volume → ENTER

Open the [VOLUME] screen

1 **Select the appropriate button to set the volume between 1 (minimum) and 7 (maximum).**

Off :Sound output will be muted.

2 **Press the POS button to return to the current vehicle position screen.**

MEMO

Navigation Set Up

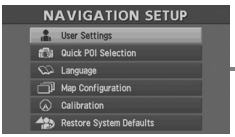
●You can alter the map display conditions, the route guidance conditions and show the system information.

Warning

■ **Stop your vehicle before the following operations.**
Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident.
Always stop the vehicle in a safe location and put the parking brake on before operating the system.

Before Steps MENU → ENTER select Navigation Set Up → ENTER

Open [NAVIGATION SETUP]



- User Settings (☞ page 41)
- Quick POI Selection (☞ page 43)
- Language (☞ page 47)
- Map Configuration (☞ page 48)
- Calibration (☞ page 44)
- Restore System Defaults (☞ page 46)

Navigation Set Up

User Setting

Before Steps

MENU → ENTER select Navigation Set Up → ENTER

ENTER select User Settings ENTER

Open the [USER SETTINGS] screen

USER SETTINGS
Map Color 1 2 3
Map Mode Auto Day Night
Distance km Miles
Average Speed Change speed
Road Restriction Warnings On Off

■ Map Color

Select a screen color from 1 to 3 options.

■ Map Mode

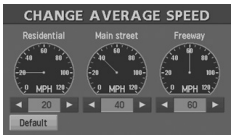
- Auto : The display will automatically switch between Day and Night illumination mode when the headlights are turned off and on respectively.
- Day : The display will be presented in Day illumination mode regardless of whether the headlights are on or off.
- Night : The display will be presented in Night illumination mode regardless of whether the headlights are on or off.

■ Distance

Select the distance unit from km or Miles.

■ Average Speed

Set the average speed for each road to be driven.
(This function sets the standard speed (average vehicle speed for each route) used for calculating the estimated arrival time when calculating the route time.)



◄ : ► Average speed setting

Default :Changes back to default

■ Road Restriction Warnings

The display of warnings during route guidance when passing through areas with traffic restrictions can be turned on or off.

Navigation Set Up

User Setting

Before Steps

MENU → ENTER select Navigation Set Up → ENTER

ENTER select User Settings → ENTER

Open the [USER SETTINGS] screen

■ Arrival Time

The time which is displayed until reaching the destination or a way point can be set as an estimated arrival time or the remaining time.

Select to display the estimated arrival time, or to display the remaining time.

■ Keyboard Layout

The layout of input keys can be selected as ABC or QWE.

■ Clock

Allows selection of whether clock is to be displayed.

■ Beep

Allows selection of whether beep will sound.

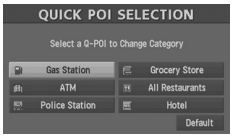
Navigation Set Up Quick POI Selection

This function allows you set the categories on the area displayed when the (Point of Interest) menu is selected on the map. Quick POI enables you store up to six different kinds of categories which you use most regularly.

1 MENU → ENTER select Navigation Set Up → ENTER

2 ENTER select Quick POI Selection → ENTER

Open the [QUICK POI SELECTION] screen



Select the button for Quick POI storage.

Note

●Select the category to be changed

Default : This button allows you to restore the factory settings.

Select a category.

Once selected, subcategories will be displayed.

List All Categories : Subcategories from all of the individual categories will be displayed together.

Select the subcategories to be displayed on the map.

Repeat the above steps to add further POI markers displayed on the menu.

Navigation Set Up

Calibration

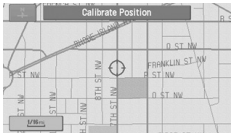
This function allows you to correct any error in the position or direction of your vehicle display.

Before Steps MENU → ENTER select Navigation Set Up

Adjusting Current Position and Direction

ENTER select Position / Direction → ENTER

Open the [Calibrate Position] screen



Move ○ to the correct position and select ENTER.

Use ◀ or ▶ to adjust the direction in which you are heading, and select OK.

Distance

This function automatically corrects any error in the display of the current position that might occur after tire replacement.

ENTER select Distance → ENTER

You will have to drive about 6 miles (10 km) before distance correction is complete.

Set Clock

The current time is set using this function. Since time notification is provided by a GPS satellite.

ENTER select Set Clock → ENTER

Open the [SET CLOCK] screen

Select 24H if you prefer 24-hour display; 12H for 12-hour display.

Select +1 hour to move the setting ahead by one hour, and similarly, select -1 hour to move it back by one hour.

How to exit OK.

Note

Minutes are adjusted by the GPS, however, it is necessary to adjust hours under the following conditions:

- Driving across different time zones
- Daylight saving time start and end

Map Version

The map and software version numbers can be confirmed using this function.

ENTER select Map Version → ENTER

Map and software versions are now displayed.

Navigation Set Up

Restore System Defaults

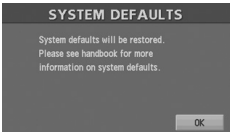
This function replaces all the settings in the mobile navigation system with the initial default settings.

Before Steps

MENU → ENTER select Navigation Set Up → ENTER

ENTER select Restore System Defaults → ENTER

Open the [SYSTEM DEFAULTS] screen



Select OK **.**

If you execute Restore System Defaults, all of your stored setting data will be deleted.

[Default List]

Item	Initial condition
Menu names	
Map Orientation	North up
Map display mode	Single-screen display
Map Display scale/Map scale for Dual-screen is not object of backup.	Single-screen: 10,000 map (1/16 mi)
Display guidance language	English
Quick-POI map display	All Off
Quick-POI Selection	A : Gas station B : ATM C : Police Station D : Grocery store E : All Restaurant F : Hotel
Search Area	US9 (including Washington DC)
Map Color	1
Day/Night/Auto Setting	Auto
Distance Units (Miles/KM) (Global setting)	Miles
Volume Presets	4
Time display change (12h/24h)	24h
Keyboard layout	ABC
Arrival Time	Time
Navigation Setup (Clock)	Off
Navigation Setup (Beep)	On
Map Configuration	
Freeway Information	Off
Guidance Screen	ON
Map screen	Single
Turn Guidance Screen	Turn List

Navigation Set Up

Language

You can change the language of the menu and the voice guidance.

Before Steps

MENU → ENTER select Navigation Set Up → ENTER

→ ENTER select Language → ENTER

Open the [LANGUAGE] screen

Select your preferred language from the list.

Navigation Set Up

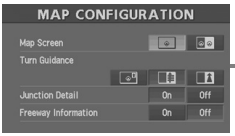
Map Configuration

Before Steps

MENU → ENTER select Navigation Set Up → ENTER

ENTER select Map Configuration → ENTER

Open the [MAP CONFIGURATION] screen



■ Map Screen

Map Screen

Select single or dual map display.

Single map

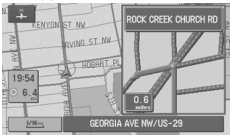
Dual map

■ Turn Guidance

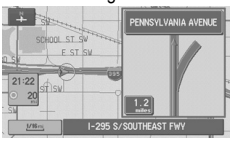
Turn Guidance

Enlarged Junction Diagram

Before a fork in the road, an enlarged diagram of the junction automatically appears in a second screen.This is to make route guidance even clearer.

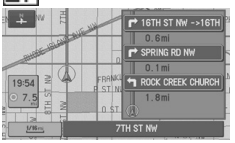


During route guidance, an enlarged diagram of an approaching fork or junction appears. When you drive past the junction, the enlarged diagram disappears.



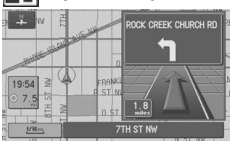
During route guidance, an enlarged diagram of the freeway automatically appears in a second screen as you approach a fork on the freeway. This is to make route guidance even clearer.

Turn List



While using route guidance, the directions for the next junction where you have to turn are shown as Turn List.

Turn Arrow



While using route guidance, the directions for the next junction where you have to turn are shown as Turn Arrow.

■ Junction Detail

Junction Detail On Off

Select whether the Enlarged Junction diagram screen is displayed automatically.

■ Freeway Information

Freeway Information On Off

Allows selection of whether the guidance screen is to be displayed while driving on a freeway.

Precautions/System Performance

Voice Guidance

Warnings

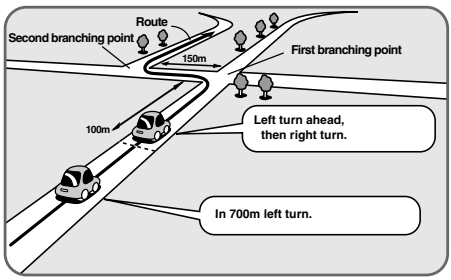
- The navigation system is just a support system for the driver. The driver should always pay attention to the traffic situation to safely make decisions. You may be unable at times to arrive at your destination due to out-of-date information on a map disc. You should be especially careful when selecting an urgent destination such as a hospital or a police station.
- Your route may sometimes include roads that are not open to vehicles or are closed due to traffic regulations. Please comply with the local traffic regulations.
- Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.

Voice guidance has the following functions:

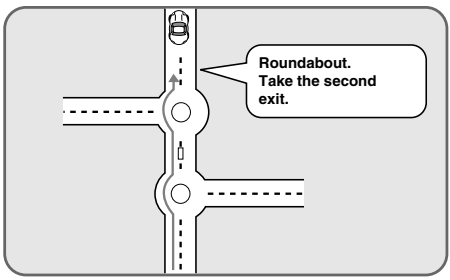
■ Intersection guidance

- The system voice announces the distance to an upcoming turn and the turning direction.
  ➡ This guidance function is automatic. Therefore, you do not have to set it, and it cannot be disabled.

- The system vocally announces the distance to an upcoming highway branching point or junction.

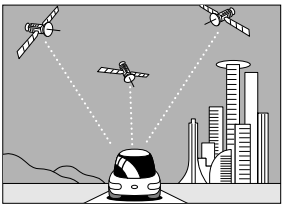


When two intersections are close together, the voice guidance may be late.



When two roundabouts are close together, the voice guidance for the second may be late.

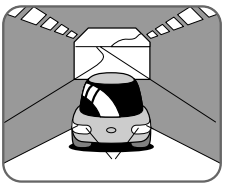
GPS

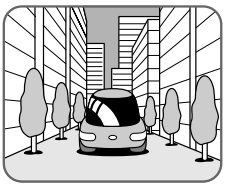


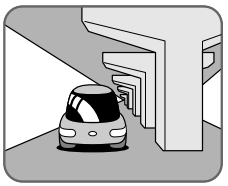
GPS is a position detecting system utilizing the signals from GPS satellites deployed by the U.S. Department of Defense. The Mobile Navigation System uses input from three or more satellites and calculates the vehicle position based on the principle of triangulation.
The positioning accuracy of the system corresponds to the error display of the GPS which is from about 30 to 200 meters.

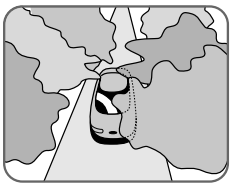
- If you are using the system for the first time, or if you have not used it for some time, it takes about 5 minutes (or about 2 minutes in open areas) to calculate your vehicle's position.

■ GPS signal reception is poor in the following places


In tunnels


Among high-rise buildings


Under elevated roads

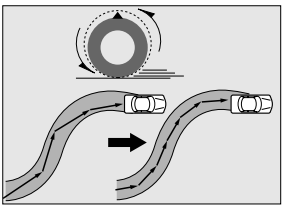

In wooded areas

- The GPS satellites are controlled by the U.S. Defense Department, which may intentionally lower positioning accuracy. In such cases, there may be vehicle position deviations.
- There may be vehicle position deviations for some time until GPS signals are received after turning on the ignition.

Map Matching

This function compares your vehicle's tracking data with the road data on the map disc, applies dead reckoning to determine the road you are driving on, and displays your vehicle on that road on the map.

- Intelligent map matching addresses the following problems to achieve high accuracy in vehicle positioning.



Position Correction for Elevated Roads
Position accuracy is improved by detecting if the vehicle is running on or under an elevated road.

Position Correction for Parking Garages
Position accuracy is improved by detecting if the vehicle is driving in an elevated or underground parking garage.

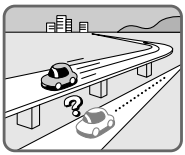
High-precision Gyrosensor
A gyro detects turns with an accuracy of 0.05° per second. Combined with a speed sensor, it enables the system to display the current vehicle position even where GPS signals may be blocked.

- Using a spare tire in place of the regular one may cause vehicle position deviations.
- Any difference between the direction which your vehicle actually travels and that shown on the map is automatically eliminated by azimuth correction.

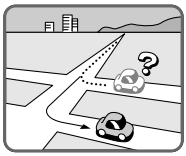
Precautions/System Performance

Positioning Accuracy

In the following situations, your vehicle position may not be displayed correctly on the map. But, as you keep driving, your vehicle position will be automatically corrected utilizing map matching and GPS data.

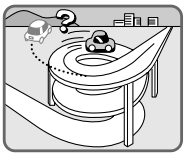


Running on an elevated road

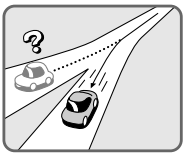


Making a turn after driving on a long straight road

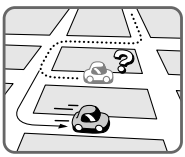
Running on a steep mountain road



Running on a spiral road

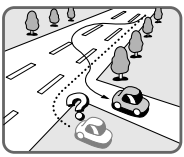


Entering an intersection where a road branches off at a small angle

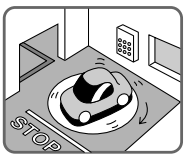


Running on gridiron layout of roads

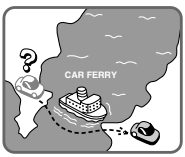
Running on a slippery road with tire chains



Snaking on a wide road



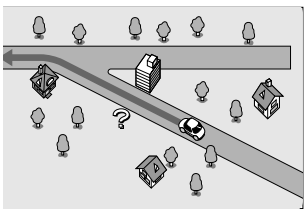
When your vehicle is on a turntable with the ignition turned off



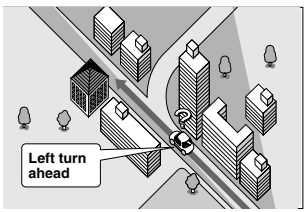
After getting off a ferryboat or vehicle train

Route Guide

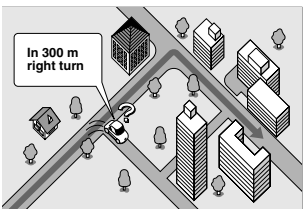
Although you may encounter the following problems in route guide, there is nothing wrong with the system.



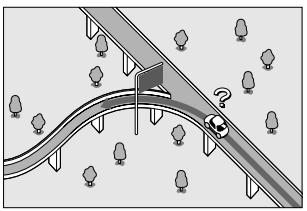
For certain intersection shapes, the upcoming turn or the name of the intersection may not be announced.



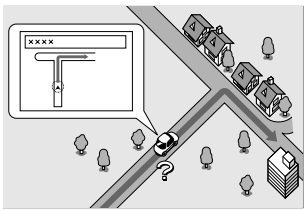
For certain intersection shapes, you may be prompted to turn right or left When you should actually stay on the same road.



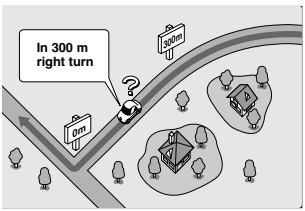
Voice guidance for the planned route may continue even after you have deviated from that route such as having turned too early.



Some points where the road divides on highways or toll roads may not be displayed or announced.



The Intersection Zoom Map may not always agree with the actual shape of the intersection.



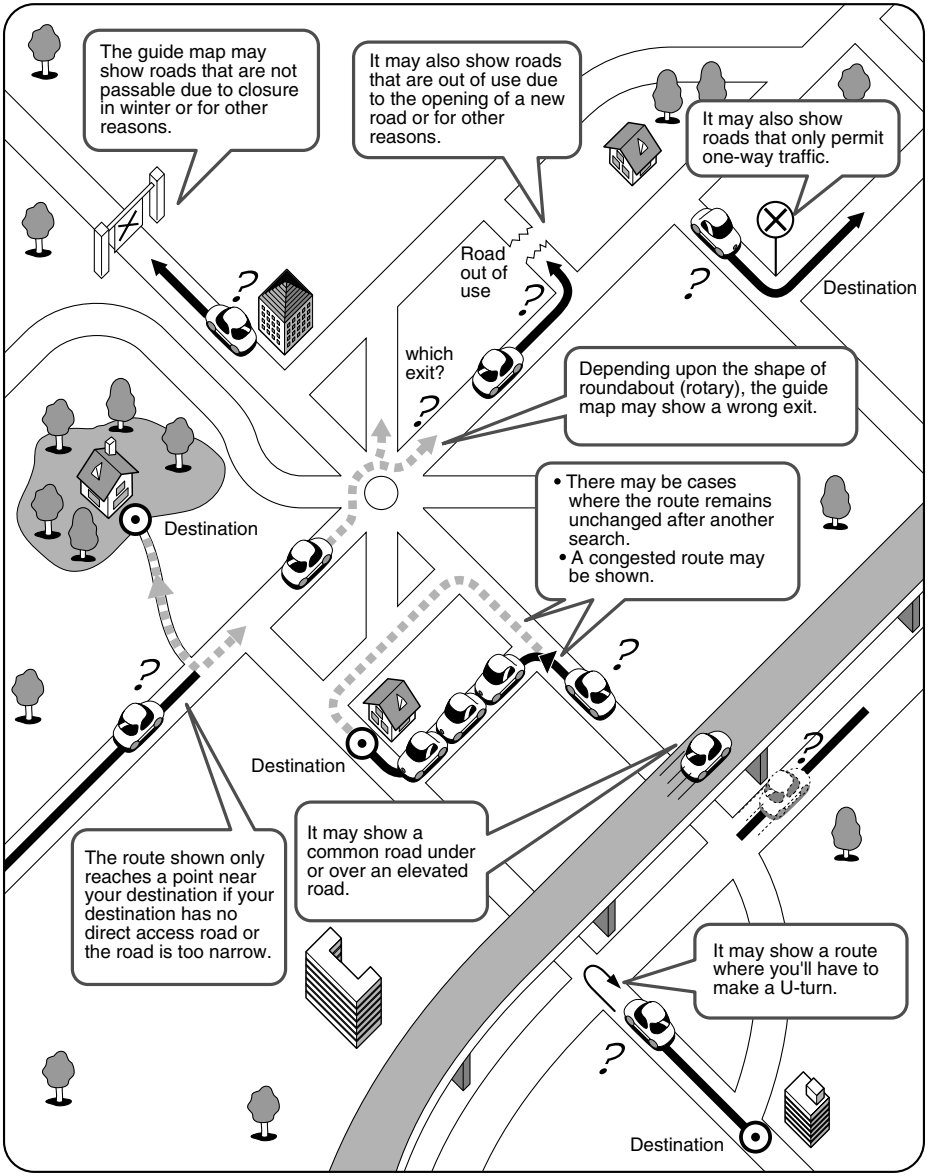
The announced distance to an upcoming turn may differ slightly from reality.

Warning

The navigation system is just a support system for the driver. The driver should always pay attention to the traffic situation to safely make decisions. You may be unable to arrive at your destination due to out-of-date information on a map disc. You should be especially careful when selecting an urgent destination such as a hospital or a police station.

Route Search

Although you may encounter the following problems in a route search, there is nothing wrong with the system.


The guide map may show roads that are not passable due to closure in winter or for other reasons.
It may also show roads that are out of use due to the opening of a new road or for other reasons.
It may also show roads that only permit one-way traffic.
Road out of use
Destination
which exit?
Depending upon the shape of roundabout (rotary), the guide map may show a wrong exit.
Destination
• There may be cases where the route remains unchanged after another search.
• A congested route may be shown.
Destination
The route shown only reaches a point near your destination if your destination has no direct access road or the road is too narrow.
It may show a common road under or over an elevated road.
It may show a route where you'll have to make a U-turn.
Destination

Troubleshooting

Verification First

Note

There may be some problems due to operational errors or mistakes. Please read this manual again and verify that there really is a problem before calling an Expert Dealer, we recommend an Authorized Mazda Dealer to ask for repair services.

Symptom	Check point
No picture	●Check if a fuse has blown. ➡ Consult an Expert Dealer, we recommend an Authorized Mazda Dealer.
Display does not open or close	●Check if the voltage level of the vehicle battery is low. ➡ Recharge the battery or change batteries.
The vehicle position is not correct	●Check if the vehicle position changed when ACC was set to OFF. When, for example, • The vehicle was transported by a ferry boat. • The vehicle was rotated on a turn table in a parking lot. • The vehicle was transported by a tow track or other such vehicle. ➡ Drive the vehicle for a while where you are receiving GPS signals.

Symptom	Check point
No GPS symbols are displayed	●GPS signals may not be received because of obstructions. After moving the vehicle away from obstructions, the GPS signals can be received.
The vehicle position is not displayed	●Check if the mode is set to the current position screen. ➡ Press **POS**
No voice guidance	●Check if the volume control for the voice guidance has been turned off. ●Check if the vehicle is off the route. ➡ Repeat the route search while checking the route guide screen. ●Check if you are driving the vehicle in the wrong direction on the route. ➡ Repeat the route search checking the direction of the destination.
Buttons on the remote control do not beep	●Check if [Beep] is set to [Off] (☞ page 42).

Troubleshooting

Error Messages

Error message	Solution
Please insert a MAP DVD.	●The disc is not installed. ➡ Check if the disk is installed. If installed, check if the installed disk is correct.
MAP DVD-Read Error	●The disc is wet, dirty, scratched, or upside down, or the disc cannot be played with this unit or the incorrect disk is installed. ➡ Eject the disc and check it.
The disc installed is not a MAP DVD.	

Maintenance

Care of the Product

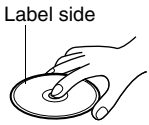
■ **Cleaning this product**
Use a dry, soft cloth to wipe it.

■ **Cautions for cleaning**
Never use solvents such as benzene and thinners, they could mar the surface of the unit.

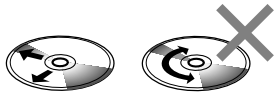
■ **Map disc**
If you require the latest map disc, consult an Expert Dealer, we recommend an Authorized Mazda Dealer.

Handling and Care of Map Discs

■ **How to hold the disc**
- Do not touch the underside of the disc.
- Do not scratch the disc.
- Do not bend the disc.
- When not in use, keep the disc in the case.



■ **Disc Cleaning**
- Use a dry, soft cloth to wipe from the center outward.



■ **Do not leave discs in the following places:**
- Direct sunlight
- Near car heaters
- In dirty, dusty and damp areas
- On seats and dashboards